

PU010322

## **DECLARATION AND POWERS OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

BI-DIRECTIONAL COMMUNICATION APPARATUS

he specification of which was filed	d on	12/21/01	as Application	on Serial No.	10/029,645	and was amended on
·		or, if not identific	ed here by filing date	and serial nur	nber, is attached i	nereto.
I have reviewed and understar	nd the content	is of the above ic	lentified specification	, including the	claims, as amend	led by any amendment
eferred to above.						
I acknowledge the duty to disc	lose informati	ion which is mate	erial to the examination	on of this appli	cation in accordar	nce with 37 CFR 1.56.
I hereby claim foreign priority I	penefits under	r 35 USC 119 of	any foreign application	on(s) for paten	t or inventor's cert	ificate listed below and have
also identified below any foreign a	pplication for	patent or invento	or's certificate by me	or my represe	ntatives or assigns	s for this invention having a
iling date before that of the applic	ation on whic	h priority is claim	ied.			
Application No	in	on	pri	ority claimed	[] Yes [] No	
Application No	in	on	pri	ority claimed	[]Yes[]No	
Application No.	in	on _	pri	ority claimed	[] Yes [] No	
hereby claim the benefit under 3	5 USC 119(e)	of any United St	tates provisional app	lication(s) as li	sted below.	
Application No. File						
hereby claim the benefit under 3	5 USC 120 of	any United State	es application(s) liste	d below and, it	nsofar as the subj	ect matter of each of the
claims of this application is not dis	closed in the	prior United Stat	tes application in the	manner provid	led by the first par	ragraph of 35 USC 112, I
acknowledge the duty to disclose	material infor	mation as define	d in 37 CFR 1.56(a)	which occurred	between the tilin	g date of the phor application
and the national or PCT internatio	nal filing date	of this application	on			
Serial No	Filed	[] Pi	atented [] pending [	abandoned		
Serial No	Filed	[ ] P	atented [ ] pending [	abandoned		information and haliaf are
I hereby declare that all staten	nents made h	erein of my own	knowledge are true a	and that all sta	tements made on	Information and belief are
pelieved to be true; and further the	at these state	ments were mad	e with the knowledge	e that willful fail	se statements and	ine the velidity of the
ounishable by fine or imprisonme		nder 18 USC 100	n and that such will	ui iaise staterii	ents may jeopard	ize the validity of the
application or any patent issued the	nereon.	the following o		agant with full	names of substitu	tion and revocation, to
I hereby appoint, individually a	ina collective	y, the following a	S my/our attorney or	agent with full	power or substitu-	tion and revocation, to
prosecute this application and to t					mected merewith.	
Joseph S. Tri					and	
Robert D. Sh			Registration No.			
Kuniyuki Akiy	ama		Registration No.	43, 314	<del></del>	
DIFACEA	DDDCCC AL	1				
	DDRESS ALI					

JOSEPH S. TRIPOLI
PATENT OPERATIONS
THOMSON multimedia Licensing Inc P.O. Box 5312 PRINCETON, NEW JERSEY 08543-5312

Sole or Joint Inventor (1)	Kumar Ramaswamy	Kilman Kamamany
Citizenship	India	(Signature in Full. No initials.)  Date
Residence	7701 Tamarron Drive, Plainsboro, NJ 08536, U.S	S.A.
Sole or Joint Inventor (2)	Edward Allen Hall	
Citizenship	(Type or Print) U.S.A.	(Signature In Full. No initials.)  Date
Residence	868 Desert Wind Court, Carmel, IN 46032, U.S.	1.
Sole or Joint Inventor (3)		(Constant of Call No Initials)
Citizenship	(Type or Print)	(Signature in Full. No initials.)  Date
Post Office Add	dress	
Residence		

PU010322

## DECLARATION AND POWERS OF ATTORNEY

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I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

E	BI-DIRECTIONAL CON	MUNICATION AP	PARATUS		
the specification of which was filed on	12/21/01	as Application	on Serial No.	10/029,645	and was amended on
	, or, if not identified	here by filing date	and serial nun	nber, is attached h	ereto.
I have reviewed and understand the cor	ntents of the above idea	ntified specification	, including the	claims, as amend	ed by any amendment
referred to above.					
I acknowledge the duty to disclose infor					
I hereby claim foreign priority benefits u					
also identified below any foreign application	for patent or inventor:	s certificate by me	or my represer	ntatives or assigns	for this invention having
filing date before that of the application on v	which priority is claimed	d			
Application No in	on	pri	ority claimed	[] Yes [] No	
Application No in	on	pri	ority claimed	[] Yes [] No	
Application No in	on	pri	onty claimed	[]Yes[]No	
hereby claim the benefit under 35 USC 11	9(e) of any United Stat	ies provisional app	lication(s) as iii	sted below.	
Application No. Filed					
hereby claim the benefit under 35 USC 12	o of any United States	application(s) liste	ed below and, if	nsolar as the subje	ect matter of each of the
claims of this application is not disclosed in a-knowledge the duty to disclose material i	the phor United States	s application in the	manner provid	led by the lirst para	agraph of 35 USC 112,
			which occurred	n perween the mind	date of the phor applic
and the national or PCT international filing	Jate of this application	anted ( ) perding (	l abandoned		
Serial NoFiled Serial NoFiled	[ ] pate	ented [] pending [	] abandoned		
I hereby declare that all statements made	de herein of my own kr	nowledge are true a	and that all stat	ements made on i	nformation and belief a
believed to be true; and further that these s	tatements were made	with the knowledge	that willful fals	se statements and	the like so made are
punishable by fine or imprisonment, or both	n. under 18 USC 1001	and that such willf	ul false statem	ents may jeopardi:	ze the validity of the
application or any patent issued thereon.	,				,
I hereby appoint, individually and collec	tively, the following as	my/our attorney or	agent with full	power of substitut	ion and revocation, to
prosecute this application and to transact a	Il business in the U.S.	Patent and Traden	nark Office con	nected therewith:	
Joseph S. Tripoli		Registration No.	26,040		
Robert D. Shedd		Registration No.		and	
Kuniyuki Akiyama	•	Registration No.	43, 314		
			-		
PLEASE ADDRESS	ALL				
COMMUNICATIONS	i TO:				
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Sole or Joint Inventor (1)		Kumar Ramaswamy	
	_		(Signature in Full. No initials.)
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•			
Residence .	770	1 Tamarron Drive, Plainsboro, NJ 08536, U.S	Α
Sole or Joint Inventor (2)		Edward Allen Hall	Signature in Full. No initials.) Date 24 March 2002
		(Type or Print)	(Signature in Full. No initials.)
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•			
Residence	868	Desert Wind Court, Carmel, IN 46032, U.S.A	
	000	Doddit Willia Godity Galffield, It V Teese, C.G.	
Sole or Joint Inventor (3)			
	7	Type or Print)	(Signature in Full. No initials.)
Citizenship			Date
Post Office Add	iress		
Residence			
nesidence .			